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(54) TORQUE DIVIDING MECHANISM FOR  
DIFFERENTIAL GEAR

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(57) Abstract:

PURPOSE: To disuse bevel gears used in a power transmission system to the torque dividing mechanism of a differential device from a drive source and replace them with spur gears so as to reduce cost and weight.

CONSTITUTION: A differential gear D disposed between an engine E and lateral wheels WR, WL, is provided with first planetary gear mechanism PR and second planetary gear mechanism PL. A pair of external tooth gears 12R, 12L formed integrally with the sun gears 6R, 6L of both planetary gear mechanisms PR, PL are respectively meshed with a first spur gear 11<sub>1</sub> provided at a first driving shaft 10 connected to a drive source 9, and a second spur gear 11<sub>2</sub> provided at a second driving shaft 13 connected to the first driving shaft 10 through a third and a fourth spur gears 11<sub>3</sub>, 11<sub>4</sub>. When the drive source 9 is driven, the first and second sun gears 6R, 6L are rotated in the reverse direction, and the torque of the engine E is distributed at the specified ratio to the lateral wheels WR, WL.

